## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## MARK SCHEME for the May/June 2007 question paper

## 0625 PHYSICS

0625/05

Paper 5 (Practical), maximum raw mark 40

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 2		Mark Scheme IGCSE – May/June 2007	Syllabus 0625	Paper 5
1	(b)	$\theta_1$ sens	ible room temp		[1]
	(d)	$ heta_2$ suita		[1]	
	(f)	$ heta_3$ (grea	ater than $\theta_1$ and less than $\theta_2$ )		[1]
	(g)	$ heta_2$ (a litt	le less than or equal to $\theta_2$ in <b>(d)</b> )		[1]
	(i)	$\theta_3$ less	than $\theta_2$ in <b>(g)</b> and greater than $\theta_3$ in <b>(f)</b>		[1]
	(b)	– <b>(i)</b> <u>all</u> t evid	emperatures in °C, correctly written dence of temperatures to 1°C		[1] [1]
	(j)	(i) hea	It loss to surroundings		[1]
		(ii) any insu lid spe rep wai stire	r two from: ulation / mat edier transfer eats t to record maximum temperature ring		
		incl	ude beaker in calculation		[2]
2	(a)	record o	of $h_0$ , sensible (25 – 100cm) with correct unit		[1]
	(c)	– <b>(h)</b> 6 se evic cor	ets of <i>d</i> and <i>h</i> dence of <i>h</i> to nearest mm rect arithmetic for <i>b</i>		[1] [1] [1]
	(i)	Graph: correct plots to line, thir	axis labelled with symbol / unit nearest ½ sq (-1 each error or omission) n and best fit		[1] [2] [1]
	(j)	no not (a s OR neg	traight line) through origin (ecf) ative gradient		[4]
	(k)	use of s	et square / protractor / spirit level / plumbline		[1]
	. /		· · · ·		[Total: 10]

	Page 3		Mark Scheme	Syllabus	Paper		
			IGCSE – May/June 2007	0625	5		
3	(b)	(b) – (f) table complete with V, I and R values sensible values for V (1 – 4) and I (0.1 – 1.0) both V to at least 1 dp both I to at least 2 dp correct arithmetic for R values first R value between 3 and 5 x second value both R to 2 sf or both to 3 sf					
	(g)	(g) all correct units: V, A, $\Omega$ (symbol or word)					
	(h) fourth box				[1]		
	(i)	[1]					
					[Total: 10]		
4	<ul> <li>(a) – (g) table complete with x, y and f values all x, y and f given to nearest mm all x, y and f in m correct arithmetic for f f values 140 – 160 mm</li> </ul>						
	(h)	correct a average correct u	average <i>f</i> <i>f</i> to 2/3 sf init for average <i>f</i> (m, cm, mm)		[1] [1] [1]		
	(i)	precaution any two f use dark metre rul object ar mark on lens perp choosing lens/screate avoidance	ons: from: ened area le on bench or clamped nd lens same height from bench lens holder to show position of lens centre pendicular to light rays g mid-point between acceptable positions een perpendicular to bench ce of parallax error, if action and reason given		[2]		
					[Total: 10]		